Plant Science, 91 (1993) 231–233
Elsevier Scientific Publishers Ireland Ltd.

Subject Index

Volume 91 (1993)

A23187, calcium homeostasis, ^{45}Ca influx, calcium ionophore, *Chara*, 7
Acyltransferase, polyunsaturated fatty acid biosynthesis, cytochrome b_5, cytochrome b_5 reductase, NADH:ferricyanide reductase, 15
Agarose isoelectric focusing, barley, anther culture, embryo specific isozymes, 75
Agrobacterium tumefaciens, chimera, flax, gene expression, *Linum usitatissimum*, transformation, 139
Allotetraploids, tomato, somatic hybridization, organelle DNA, RFLP, disomic polyploids, 55
Aloe barbadensis Mill., basic DNA content variation, cell dimensions, cytophotometry, heterochromatin, regenerated plants, 223
α-Amylase, protoplasts, germination, secretion, thermostability, heterologous expression, 195
Anther culture, barley, embryo specific isozymes, agarose isoelectric focusing, 75
Anthocyanin, UV-B, maize, flavin, 1
Aphid resistance, somatic hybrids, *Nicotiana benthamiana*, *Nicotiana tabacum*, *Myzus persicae*, 213
Artificial seeds, synthetic seeds, embryo maturation, storage protein, glutamine, 87
Asparagus officinalis L., cryopreservation, vitrification, asparagus, embryogenic cells, 67
Asparagus, cryopreservation, vitrification, *Asparagus officinalis* L., embryogenic cells, 67
ATPase, mitochondria, coupling factor, δ′ subunit, 149
Auxins, *Dendrocalamus strictus*, nodal segment, phenolic acids, polarity, rooting, 97

Barley, anther culture, embryo specific isozymes, agarose isoelectric focusing, 75
Basic DNA content variation, *Aloe barbadensis* Mill., cell dimensions, cytophotometry, heterochromatin, regenerated plants, 223

Coffea arabica, *Coffea canephora*, in vitro conservation, temperature, sugar, proline, malondialdehyde, ethylene, 109
Coffea canephora, *Coffea arabica*, in vitro conservation, temperature, sugar, proline, malondialdehyde, ethylene, 109
^{45}Ca influx, A23187, calcium homeostasis, calcium ionophore, *Chara*, 7
Calcium homeostasis, A23187, ^{45}Ca influx, calcium ionophore, *Chara*, 7
Calcium ionophore, A23187, calcium homeostasis, ^{45}Ca influx, *Chara*, 7
Callose synthase, *Hordeum vulgare*, plasma membrane, digitonin, product entrapment, native gel electrophoresis, 127.
Carya, somatic embryogenesis, germination, conversion, 103
Cauliflower mosaic virus (CaMV) coat protein gene, phosphinothricin, kanamycin, hygromycin resistance, protoplasts, rapeseed, stable co-transformation, transgenic plants, 181
cDNA, *Hordeum vulgare*, dsRNA, thermal reverse transcriptase, genetic transmission, 45
Cell cultures, chenopodiaceae, *Chenopodium album*, ecdysteroids, Δ7-sterols, steryl esters, 23
Cell dimensions, *Aloe barbadensis* Mill., basic DNA content variation, cytophotometry, heterochromatin, regenerated plants, 223
Chara, A23187, calcium homeostasis, ^{45}Ca influx, calcium ionophore, 7
Chenopodiaceae, cell cultures, *Chenopodium album*, ecdysteroids, Δ7-sterols, steryl esters, 23
Chenopodium album, cell cultures, chenopodiaceae, ecdysteroids, Δ7-sterols, steryl esters, 23
Chimera, *Agrobacterium tumefaciens*, flax, gene expression, *Linum usitatissimum*, transformation, 139
Chromatin structure, maize, nuclear matrix, 35
Coat protein, *Nicotiana*, plum pox virus, resistance, 157
Conversion, *Carya*, somatic embryogenesis, germination, 103
Coupling factor, mitochondria, ATPase, δ′ subunit, 149
Cryopreservation, vitrification, asparagus, *Asparagus officinalis* L., embryogenic cells, 67
Cucumis sativus (cucumber), endopolyploidy, flow cytometry, polysomaty, seed germination, 171
Cytochrome b_5 reductase, polyunsaturated fatty acid biosynthesis, acyltransferase, cytochrome b_5, NADH:ferricyanide reductase, 15
Cytochrome b_5, polyunsaturated fatty acid biosynthesis, acyltransferase, cytochrome b_5 reductase, NADH:ferricyanide reductase, 15
Cytophotometry, *Aloe barbadensis* Mill., basic DNA content variation, cell dimensions, heterochromatin, regenerated plants, 223

Dendrocalamus strictus, nodal segment, auxins, phenolic acids, polarity, rooting, 97

Digitonin, *Hordeum vulgare*, callose synthase, plasma membrane, product entrapment, native gel electrophoresis, 127
Disomic polyploids, tomato, somatic hybridization, organelle DNA, RFLP, allotetraploids, 55
dsRNA, *Hordeum vulgare*, cDNA, thermal reverse transcriptase, genetic transmission, 45

Ecdysteroids, cell cultures, chenopodiaceae, *Chenopodium album*, Δ7-sterols, steryl esters, 23
Embryo maturation, artificial seeds, synthetic seeds, storage protein, glutamine, 87
Embryo specific isozymes, barley, anther culture, agarose isoelectric focusing, 75
Embryogenic cells, cryopreservation, vitrification, asparagus, *Asparagus officinalis* L., 67
Endopolyploidy, flow cytometry, polysomaty, seed germination, *Cucumis sativus* (cucumber), 171
Ethylene, *Coffea arabica*, *Coffea canephora*, in vitro conservation, temperature, sugar, proline, malondialdehyde, 109

Flavin, anthocyanin, UV-B, maize, 1
Flax, *Agrobacterium tumefaciens*, chimera, gene expression, *Linum usitatissimum*, transformation, 139
Flooding, *Nicotiana tabacum*, nicotine, polyamines, senescence, 121
Flow cytometry, endopolyploidy, polysomaty, seed germination, *Cucumis sativus* (cucumber), 171

Gene expression, *Agrobacterium tumefaciens*, chimera, flax, *Linum usitatissimum*, transformation, 139
Genetic transmission, *Hordeum vulgare*, dsRNA, cDNA, thermal reverse transcriptase, 45
Germination, *Carya*, somatic embryogenesis, conversion, 103
Germination, protoplasts, secretion, thermostability, α-amylase, heterologous expression, 195
Glutamine, artificial seeds, synthetic seeds, embryo maturation, storage protein, 87

Heterochromatin, *Aloe barbadensis* Mill., basic DNA content variation, cell dimensions, cytophotometry, regenerated plants, 223
Heterologous expression, protoplasts, germination, secretion, thermostability, α-amylase, 195
Hordeum vulgare, callose synthase, plasma membrane, digitonin, product entrapment, native gel electrophoresis, 127
Hordeum vulgare, dsRNA, cDNA, thermal reverse transcriptase, genetic transmission, 45
Hygromycin resistance, cauliflower mosaic virus (CaMV) coat protein gene, phosphinothricin, kanamycin, protoplasts, rapeseed, stable co-transformation, transgenic plants, 181

In vitro conservation, *Coffea arabica*, *Coffea canephora*, temperature, sugar, proline, malondialdehyde, ethylene, 109
In vitro monoterpene accumulation, *Lavandula latifolia*, tissue cultures, 207

Kanamycin, cauliflower mosaic virus (CaMV) coat protein gene, phosphinothricin, hygromycin resistance, protoplasts, rapeseed, stable co-transformation, transgenic plants, 181

Lavandula latifolia, in vitro monoterpene accumulation, tissue cultures, 207
Linum usitatissimum, *Agrobacterium tumefaciens*, chimera, flax, gene expression, transformation, 139

Maize, anthocyanin, UV-B, flavin, 1
Maize, chromatin structure, nuclear matrix, 35
Malondialdehyde, *Coffea arabica*, *Coffea canephora*, in vitro conservation, temperature, sugar, proline, ethylene, 109
Mitochondria, ATPase, coupling factor, δ′ subunit, 149
Myzus persicae, somatic hybrids, *Nicotiana benthamiana*, *Nicotiana tabacum*, aphid resistance, 213

NADH:ferricyanide reductase, polyunsaturated fatty acid biosynthesis, acyltransferase, cytochrome b_5, cytochrome b_5 reductase, 15
Native gel electrophoresis, *Hordeum vulgare*, callose synthase, plasma membrane, digitonin, product entrapment, 127
Nicotiana benthamiana, somatic hybrids, *Nicotiana tabacum*, aphid resistance, *Myzus persicae*, 213
Nicotiana tabacum, flooding, nicotine, polyamines, senescence, 121
Nicotiana tabacum, somatic hybrids, *Nicotiana benthamiana*, aphid resistance, *Myzus persicae*, 213
Nicotiana, coat protein, plum pox virus, resistance, 157
Nicotine, flooding, *Nicotiana tabacum*, polyamines, senescence, 121
Nodal segment, *Dendrocalamus strictus*, auxins, phenolic acids, polarity, rooting, 97
Nuclear matrix, maize, chromatin structure, 35

Organelle DNA, tomato, somatic hybridization, RFLP, allotetraploids, disomic polyploids, 55

Phenolic acids, *Dendrocalamus strictus*, nodal segment, auxins, polarity, rooting, 97
Phosphinothricin, cauliflower mosaic virus (CaMV) coat protein gene, kanamycin, hygromycin resistance, protoplasts, rapeseed, stable co-transformation, transgenic plants, 181
Plasma membrane, *Hordeum vulgare*, callose synthase, digitonin, product entrapment, native gel electrophoresis, 127
Plum pox virus, coat protein, *Nicotiana*, resistance, 157
Polarity, *Dendrocalamus strictus*, nodal segment, auxins, phenolic acids, rooting, 97
Polyamines, flooding, *Nicotiana tabacum*, nicotine, senescence, 121
Polysomaty, endopolyploidy, flow cytometry, seed germination, *Cucumis sativus* (cucumber), 171
Polyunsaturated fatty acid biosynthesis, acyltransferase, cytochrome b_5, cytochrome b_5 reductase, NADH:ferricyanide reductase, 15

Product entrapment, *Hordeum vulgare*, callose synthase, plasma membrane, digitonin, native gel electrophoresis, 127
Proline, *Coffea arabica*, *Coffea canephora*, in vitro conservation, temperature, sugar, malondialdehyde, ethylene, 109
Protoplasts, cauliflower mosaic virus (CaMV) coat protein gene, phosphinothricin, kanamycin, hygromycin resistance, rapeseed, stable co-transformation, transgenic plants, 181
Protoplasts, germination, secretion, thermostability, α-amylase, heterologous expression, 195

Rapeseed, cauliflower mosaic virus (CaMV) coat protein gene, phosphinothricin, kanamycin, hygromycin resistance, protoplasts, stable co-transformation, transgenic plants, 181
Regenerated plants, *Aloe barbadensis* Mill., basic DNA content variation, cell dimensions, cytophotometry, heterochromatin, 223
Resistance, coat protein, *Nicotiana*, plum pox virus, 157
RFLP, tomato, somatic hybridization, organelle DNA, allotetraploids, disomic polyploids, 55
Rooting, *Dendrocalamus strictus*, nodal segment, auxins, phenolic acids, polarity, 97

Secretion, protoplasts, germination, thermostability, α-amylase, heterologous expression, 195
Seed germination, endopolyploidy, flow cytometry, polysomaty, *Cucumis sativus* (cucumber), 171
Senescence, flooding, *Nicotiana tabacum*, nicotine, polyamines, 121
Somatic embryogenesis, *Carya*, germination, conversion, 103
Somatic hybridization, tomato, organelle DNA, RFLP, allotetraploids, disomic polyploids, 55
Somatic hybrids, *Nicotiana benthamiana*, *Nicotiana tabacum*, aphid resistance, *Myzus persicae*, 213
Stable co-transformation, cauliflower mosaic virus (CaMV) coat protein gene, phosphinothricin, kanamycin, hygromycin resistance, protoplasts, rapeseed, transgenic plants, 181
Δ7-Sterols, cell cultures, chenopodiaceae, *Chenopodium album*, ecdysteroids, steryl esters, 23
Steryl esters, cell cultures, chenopodiaceae, *Chenopodium album*, ecdysteroids, Δ7-sterols, 23
Storage protein, artificial seeds, synthetic seeds, embryo maturation, glutamine, 87
δ′ subunit, mitochondria, ATPase, coupling factor, 149
Sugar, *Coffea arabica*, *Coffea canephora*, in vitro conservation, temperature, proline, malondialdehyde, ethylene, 109
Synthetic seeds, artificial seeds, embryo maturation, storage protein, glutamine, 87

Temperature, *Coffea arabica*, *Coffea canephora*, in vitro conservation, sugar, proline, malondialdehyde, ethylene, 109
Thermal reverse transcriptase, *Hordeum vulgare*, dsRNA, cDNA, genetic transmission, 45
Thermostability, protoplasts, germination, secretion, α-amylase, heterologous expression, 195
Tissue cultures, *Lavandula latifolia*, in vitro monoterpene accumulation, 207
Tomato, somatic hybridization, organelle DNA, RFLP, allotetraploids, disomic polyploids, 55
Transformation, *Agrobacterium tumefaciens*, chimera, flax, gene expression, *Linum usitatissimum*, 139
Transgenic plants, cauliflower mosaic virus (CaMV) coat protein gene, phosphinothricin, kanamycin, hygromycin resistance, protoplasts, rapeseed, stable co-transformation, 181

UV-B, anthocyanin, maize, flavin, 1

Vitrification, cryopreservation, asparagus, *Asparagus officinalis* L., embryogenic cells, 67

Plant Science, 91 (1993) 235
Elsevier Scientific Publishers Ireland Ltd.

Author Index

Volume 91 (1993)

Abbott, A.G. 15
Amano, Y. 67
Andersen, S.B. 75

Berry, S. 55

Castorena-Sanchez, I. 223
Cavallini, A. 223
Chapuis, L. 23
Charrier, A. 109
Chaturvedi, H.C. 97
Christova, R. 35
Cionini, G. 223
Corio-Costet, M.-F. 23
Cox-Foster, D.C. 45
Creemers-Mollenaar, J. 171

Delbecque, J.-P. 23
Delbos, R. 157
del Carmen Calvo, M. 207
Dong, J.Z. 139
Dunez, J. 157

Engelmann, F. 109

Gildow, F.E. 45
Gilissen, L.J.W. 171
Guerche, P. 181
Guruprasad, K.N. 1

Hagimori, M. 213
Harada, H. 213
Hejgaard, J. 127
Hervé, C. 181
Holly, S.P. 15
Hurng, W.P. 121

Ivanchenko, M. 35

Jacobsen, S. 127
Jourdan, P. 55
Jouve, L. 109

Kao, C.H. 121
Khare, M. 1
Knauft, D.A. 15

Lai, F-M. 87

Mathews, H. 103
Matsui, M. 213
Matsuzaki, T. 213
Matsuzawa, T. 67
McHughen, A. 139
McKersie, B.D. 87
Monsion, M. 157
Montagno, T. 55
Montané, M.-H. 181

Natali, L. 223
Nishizawa, S. 67
Noirot, M. 109

Oliver, D.J. 149

Pedersen, L.H. 127
Pedersen, S. 75
Phillipson, B.A. 195
Powell, G.L. 15

Rasmussen, S.K. 127
Ravelonandro, M. 157
Ray, T.K. 15
Reid, R.J. 7
Rouan, D. 181

Sakai, A. 67
Sánchez-Gras, M.C. 207
Sassoli, O. 223
Scalla, R. 23
Sharma, A.K. 97
Sharma, M. 97
Shinoda, T. 213
Shinozaki, Y. 213
Smith, F.A. 7
Stoilov, L. 35
Sulli, C. 149

Tasheva, B. 35

van Staveren, M.J. 171
Verhoeven, H.A. 171

Wetzstein, H.Y. 103

Yot, P. 181

Zabalgogeazcoa, I. 45
Zlatanova, J. 35